

NISQUALLY – NISQUALLY WINTER CHUM

STOCK STATUS

1992 STATUS

Healthy

2002 STATUS

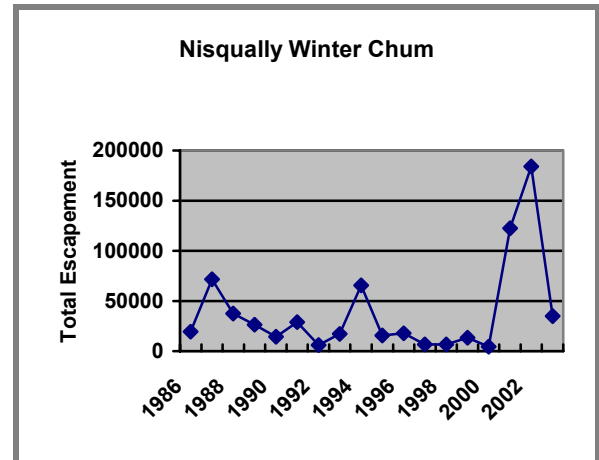
Healthy

STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS:

Good

YEAR	TOTAL ESCAPEMENT
1986	19,406
1987	71,642
1988	37,433
1989	26,307
1990	14,246
1991	28,960
1992	6,004
1993	17,103
1994	65,480
1995	15,690
1996	17,879
1997	6,694
1998	68,473
1999	13,374
2000	4,564
2001	122,744
2002	183,932
2003	34,885



Data are total escapement estimates for the Nisqually system based on index live spawner counts made in the Nisqually River, Muck Creek, Yelm Creek and two independent streams, Mounts and McAllister creeks.

Nisqually winter chum are rated **Healthy** in 2002. Although the 2000 escapement of this stock (4,252 spawners) was the lowest since estimates began in 1968, other recent escapements have been within the normal range for this stock, except for the very high escapements in 2001 and 2002.

STOCK DEFINITION

Nisqually winter chum were identified as a stock based on their distinct spawning distribution, late spawning timing, and genetic composition.

NISQUALLY – NISQUALLY WINTER CHUM

SPAWNING DISTRIBUTION: Most spawning takes place in the mainstem Nisqually River and tributaries such as Muck and Yelm creek and in two local independent streams, Mounts and McAllister creeks.

SPAWNING TIMING: Spawning occurs mainly from January through early March.

GENETIC ANALYSIS: Allozyme analysis has shown Nisqually winter chum to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).

STOCK ORIGIN

This is a **native** stock with **wild** production.